

Revising the European Standard Population

Head of Vital Events branch 28 November 2013

Content of presentation

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- Why is the European Standard Population (ESP) changing?
- How will it affect our figures?
- When will this happen?



Why do we use European Age Standardisation Rates?

- Crude rate = <u>number of deaths</u> population
- BUT
 - Some countries have a higher percentage of young people
 - Some have more old people
 - It can be misleading to compare their crude mortality rates
 - You'd expect the country with the older population to have higher mortality
- You want to examine whether the difference in mortality is due to something other than the age structure



European Age Standardised Rates (EASRs)

- Age standardisation allows you to look at how many people in Scotland would die if the number of people in each age group in Scotland was the same as in the standard population.
- If we also do this for other countries, you can compare figures to see whether the death rate is higher or lower in Scotland than in other countries.
- It can also be used for comparing results over time within Scotland by removing the impact of our ageing population.
- It can also be used to compare areas within Scotland (Local Authorities, Health Boards etc.)



Why is the European Standard Population (ESP) Changing?

- The current ESP dates back to 1976
- Although it is an artificial population, it has been agreed by European Union (EU) member states that is should better reflect the population structure of the EU today.
- The new 2013 ESP is based on an average of member states' population projections for 2011-2030
- We need to adopt the new ESP if we want to be able to continue to compare our mortality stats with other countries



What the Changes look like

Age group	1976 ESP Age group	Revised ESP	1076 560	D ' 1500
0	1,600 0	1,000	1976 ESP	Revised ESP
01-04	6,400 01-04	4,000	1 1 1 1	
05-09	7,000 05-09	5,500	-	95 and over
10-14	7,000 10-14	5,500	85 and over	90-94 85-89
15-19	7,000 15-19	5,500	80-84	80-84
20-24	7,000 20-24	6,000	75-79	75-79
25-29	7,000 25-29	6,000	70-74	70-74
30-34	7,000 30-34	6,500	65-69	65-69
35-39	7,000 35-39	7,000	60-64	60-64
10-44	7,000 40-44	7,000	55-59	55-59
45-49	7,000 45-49	7,000	50-54 45-49	50-54
50-54	7,000 50-54	7,000	40-44	45-49
55-59	6,000 55-59	6,500	35-39	40-44 35-39
50-64	5,000 60-64	6,000	30-34	30-34
55-69	4,000 65-69	5,500	25-29	25-29
70-74	3,000 70-74	5,000	20-24	20-24
75-79	2,000 75-79	4,000	15-19	15-19
30-84	1,000 80-84	2,500	10-14	10-14
85 and over			05-09	05-09
os and over		1,500	01-04	01-04
	90-94	800	· — — — — — — — — — — — — — — — — — — —	0
Total	95 and ove 100,000 Total	er 200 100,000	- 2,000 4,000 6,000	8,000 - 2,000 4,000 6,000



8,000

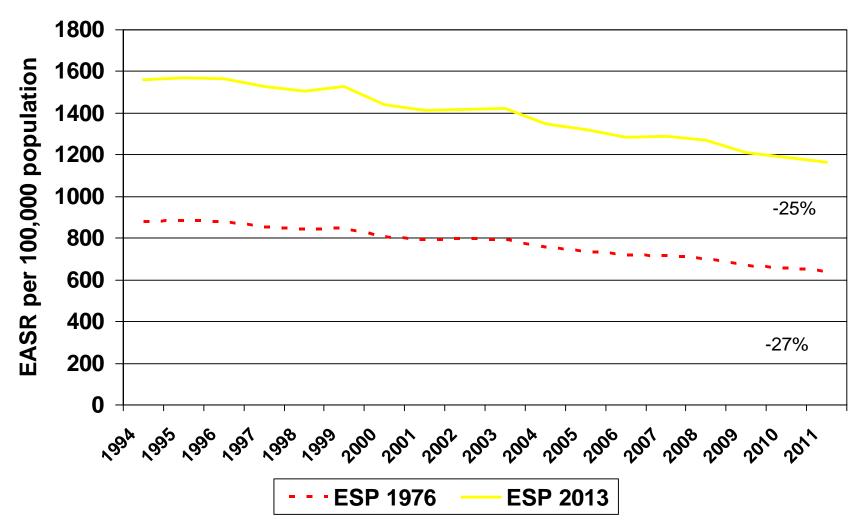
How will it affect our figures?

Points to note:

- The following examples do not take into account the rebased population estimates for 2002-2010 which are published next month
- The 2013 European Standard Population has an upper age category of 95+ but these calculations have combined 90-94 and 95+ together due to the availability of population data

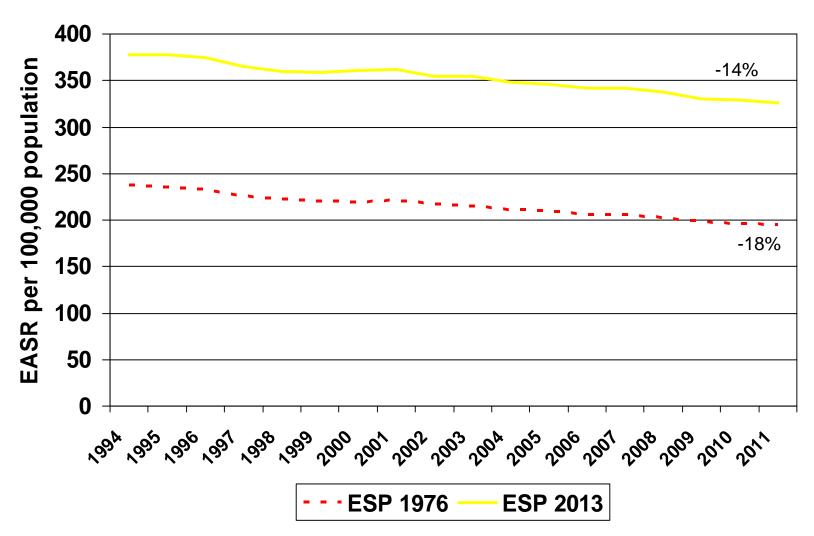


All Cause Mortality (all ages), 1994 - 2011



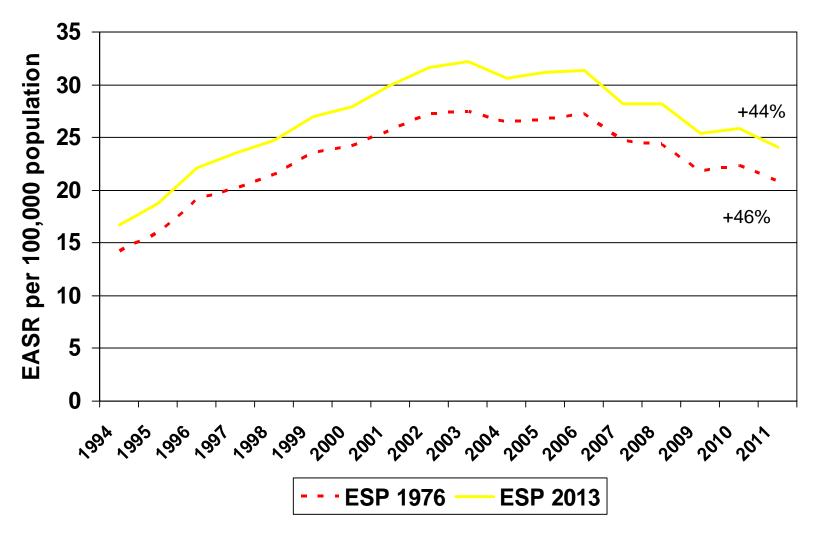


Cancer Mortality (all ages), 1994 - 2011



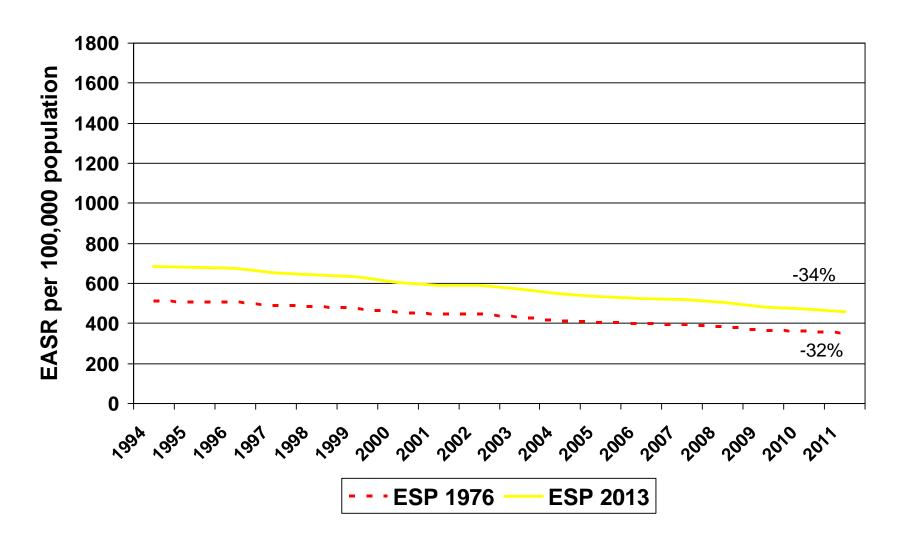


Alcohol-related Mortality (all ages), 1994 - 2011



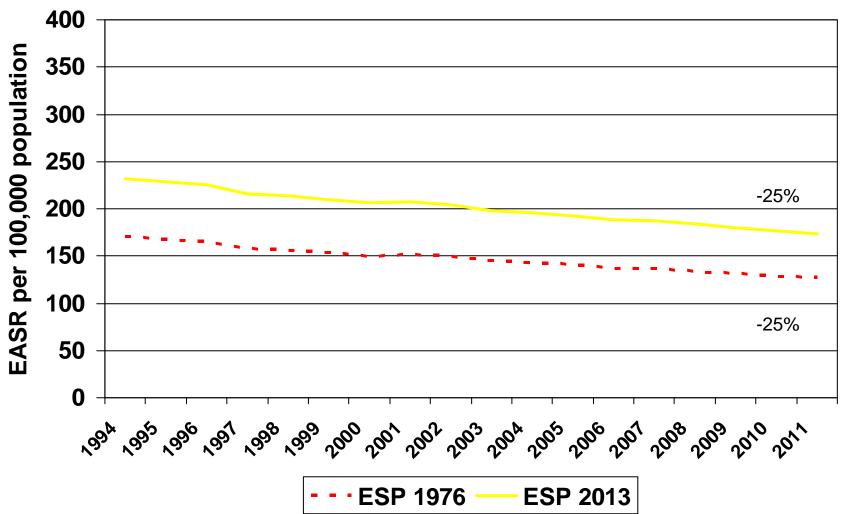


All Cause Mortality (under 75), 1994 - 2011



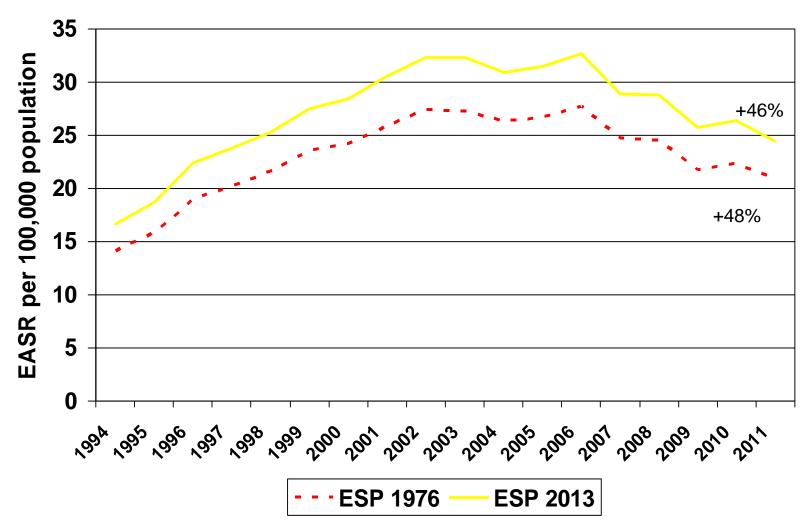


Cancer Mortality (under 75), 1994 - 2011



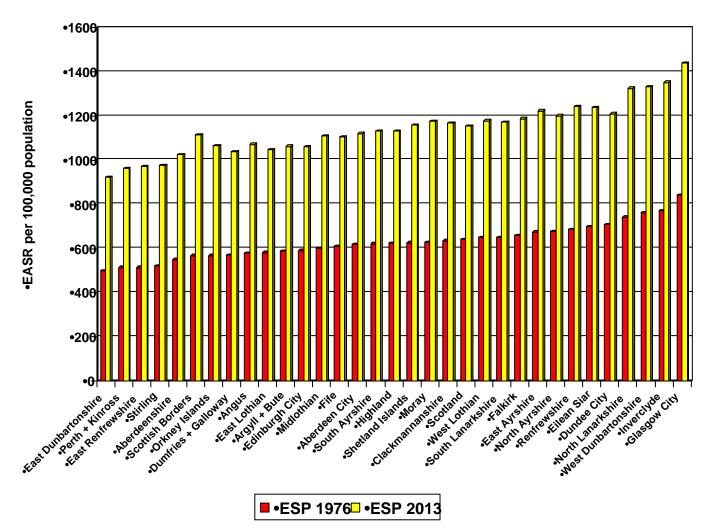


Alcohol-related Mortality (under 75), 1994 - 2011

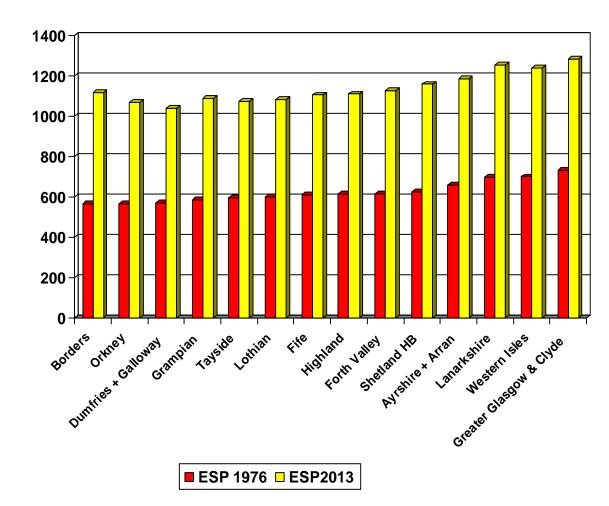




All Cause Mortality (all ages), by Local Authority, 2011









Summary of impact

- Marked upward shift in rates
- More striking for all age mortality than for under 75 mortality
- More impact on diseases which affect the elderly (e.g. cancer) than those which affect younger people (e.g. alcohol-related)
- Despite marked shift in levels, trends and percentage changes over time show little difference
- Very little changes in the ranking of areas (Local Authorities or Health Boards)



When will this happen?

- Office for National Statistics (ONS) Consultation ended on 3 Oct 2013
 - Timing of introduction
 - How far back to revise time series
- We are not bound by what ONS decides but there are advantages to aligning with ONS for comparability purposes
- Not likely to be before April 2014 but may be later



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